



Illinois Department of Transportation

Memorandum

To: DEPUTY SECRETARIES, DIRECTORS AND BUREAU CHIEFS
From: Dianna L. Taylor
Bureau Chief of Personnel Management
Subject: Technical Vacancy
Date: August 15, 2017

Attached are the Position Summary Sheet and Position Description for the vacant technical position listed below. Please post this vacancy announcement August 16, 2017 in the designated areas.

The deadline for applicants to submit their applications for consideration is **4:30 p.m. on Tuesday, August 29, 2017**. Applications will not be accepted after that time and date.

NOTE: Please be advised that if a high volume of applications are received, the applications may be screened to establish a smaller pool of applicants for interview. The screening will be based on the information contained in the application.

If you have any questions, please contact the Bureau of Personnel Management at 217/782-5594.

TM IV

System Architect
Bureau of Information Processing
Office of Finance & Administration
Springfield

Attachments
42161

Technical Applications [PM1080 rev 6/1/17](#) ****must be received** by the Bureau of Personnel Management, Room 113, 2300 South Dirksen Parkway, Springfield, IL 62764 (Fax# 217/557-3134) or emailed to DOT.CO.BPM.EmploymentApplications@Illinois.gov by **Tuesday, August 29, 2017, 4:30 p.m.** Please include address, daytime phone and position for which applying if not already listed on application. Applicants will be notified in writing to schedule interviews.

NOTE: Please be advised that if a high volume of applications are received, the applications may be screened to establish a smaller pool of applicants for interview. The screening will be based on the information contained in the application.



Illinois Department of Transportation

An Equal Opportunity Employer

Position Summary Sheet

Classification: Technical Manager IV

Salary: \$5,015 - \$7,085*

Position Title: System Architect

Union Position: ☒ Yes ☐ No

Position Number: PW414-23-40-205-30-02

IPR#: 42161

Office/Central Bureau/District/Work Address:

Office of Finance & Administration / Bureau of Information Processing / 2300 S. Dirksen, Springfield, IL

Description Of Duties:

This position functions as a System Architect for the Bureau of Information Processing. This position helps establish software framework standards, designs application architectures, and development environments to facilitate statewide technology application development for the Department.

Special Qualifications:

Desired:

- Four years of college preferably with major courses in computer science or information technology
- Five years' experience in application development, using .Net framework and Microsoft web technologies
- Experience and general understanding of internet/intranet technology
- Experience working on development over \$500,000
- General understanding of Microsoft development technologies and software; and PMI project management methodology and Agile methodology

Shift/Remarks:

8:00 am – 4:30 pm / Monday – Friday

*Individual salary offers are computed based on an applicant's current position and experience level in comparison to the posted title as well as internal equity of staff in the organizational unit.

**Technical Application PM1080 (revised 6/1/17) is required. No previous version of the PM1080 will be accepted.

**ILLINOIS DEPARTMENT OF TRANSPORTATION
POSITION DESCRIPTION**

DATE:	July 7, 2016	POSITION:	System Architect
APPROVED BY:	Dan Wilcox	OFFICE/DIVISION:	Finance & Administration/ Bureau of Information Processing
CODE:	PW414-23-40-205-30-02	REPORTS TO:	Distributed Systems Manager

Position Purpose

This position is accountable for functioning as a System Architect for the Bureau of Information Processing. This position helps establish software framework standards, designs application architectures and development environments to facilitate statewide technology application development for the Department.

Dimensions

Number of New Development Projects:	10-15 Annually
Technology user base supported:	5,400 +/-
Estimated Code Value:	\$125 million

Nature and Scope

This position reports to the Distributed Systems Manager. Under the supervision of the Distributed Systems Manager, this position is accountable for evaluating application development technology to meet departmental needs; establishing software development standards and testing implemented changes on existing technology systems and platforms. This position also assists in specifying, designing and implementing new systems and applications.

This position is responsible for seeing the entire picture of application development within the Department and for scoping the development and planning of major technology systems. This position is also responsible for helping to establish technology development standards and best practices for use by other developers in the Bureau: to ensure that these standards are consistent, complete, correct and operationally defined to support the technology development of the organization; performing cost-benefit analyses to determine whether requirements are best met by manual, software, or hardware function; to make maximum use of commercial off-the-shelf or already developed components; and to monitor or create a technology development and execution test environment to facilitate other developers. The greatest challenge of this position is to design, develop and implement technology applications that maximize the Department's investment and utilization of resources to ensure timely and effective completion of departmental objectives. To meet this challenge the incumbent must combine the complex and dynamic requirements of the Department with state-of-the-art technology and computer systems.

Typical problems of this position relate to the incumbent's ability to effectively apply practical operational experience to the development of technology solutions in response to stakeholder or users' needs. This position ensures that a robust architecture is developed and that all products and technology are maintained in the most current state and not allowed to become obsolete. This position coordinates all Microsoft MSDN benefits at the direction of the PMO office, and monitors the developer deployment of the Bureau's volume license software. This position is expected to provide technical advice to all levels of Bureau management.

The incumbent serves as the primary technology design and implementation developer and may be called on to develop sketches, models, and other prototypes to ensure that system design is evolving with ever changing technology requirements.

On development projects, the incumbent works closely with other members of the Distributed Systems Unit and with users to analyze, design and implement technology applications and systems. This position is expected to stay aware of new technologies and emerging standards, and be in a position to guide departmental implementation of these functions. This person also assumes the role of programmer / analyst as needed. The incumbent may be assigned to work independently on smaller projects.

Under the supervision of the Distributed Systems Manager, this position has the freedom to act and resolve technology development issues. Only when the action affects the unit's or users' budget or time constraints or affect departmental standards or procedures must the matter be referred to a superior for resolution. S/He is constrained by departmental regulations.

This position has the latitude to resolve technical and procedural problems as directed by the Distributed Systems Manager, the Chief Technology Officer and Bureau Chief. The position is governed by departmental and Division policies, Department of Central Management Services rules, several union agreements, various pay plans and applicable state and federal laws.

Internal contacts are with all department technology users, stakeholders and project sponsors which primarily are Bureau Chiefs, Section Heads and Directors as well as other department staff and consultants. External contacts are with multiple local and state agencies, and various vendors and consultants especially pertaining to business and engineering technology development and RFP projects.

The effectiveness of this position is measured by the incumbent's ability to scope cost-effective technology solutions and leverage the Department's investment with efficient software development practices to maximize the investment and consistency of technology development.

Principal Accountabilities

1. Establish software development standards and best practices for the department.
2. Establish and maintain liaisons with project sponsors, stakeholders, and key users of business and engineering technology in the development cycle and to determine the evolving development needs.
3. Perform cost-benefit analysis to determine whether agency requirements are best met by commercial or custom developed software or hardware functions and to make maximum use of commercial off-the-shelf or previous development components.
4. Serve as a mentor and team leader for other developers and recommends training to provide updated skill sets for all development staff with regards to development standards and to ensure a well-developed, highly trained, and productive staff.
5. Perform special assignments as assigned by the section manager or bureau chief.
6. Performs all duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
7. Performs other duties as assigned.